

541837

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



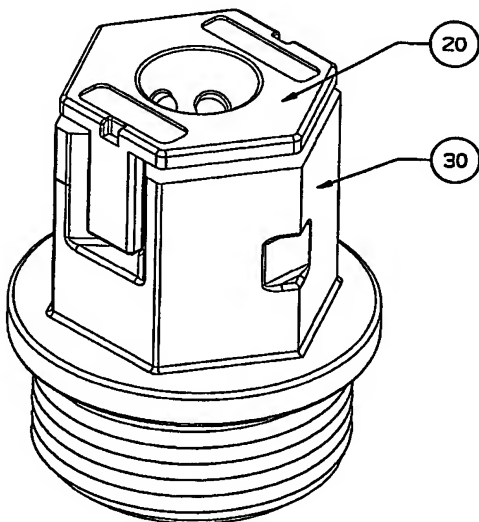
(43) International Publication Date
5 August 2004 (05.08.2004)

PCT

(10) International Publication Number
WO 2004/066496 A1

- (51) International Patent Classification⁷: **H03J 1/14**, (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (21) International Application Number: PCT/SE2003/000076
- (22) International Filing Date: 17 January 2003 (17.01.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (*for all designated States except US*): TELEFONAKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-164 83 Stockholm (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): HENNINGSSON, Uno [SE/SE]; Klingvägen 17, S-136 73 Haninge (SE). AHLBERG, Christer [SE/SE]; Oxbacksvägen 40, S-730 40 Kolbäck (SE).
- (74) Agent: MAGNUSSON, Monica; Ericsson AB, Patent Unit Radio Networks, S-164 80 Stockholm (SE).
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: SLIDING SCREW ARRANGEMENT



(57) Abstract: The present invention relates to a sliding screw arrangement (14) for transformation of the rotational movement of a threaded axis (13) into a linear movement of the sliding screw providing minimised tolerances for variations of the screw position in both radial and axial direction and providing minimised friction when moving the sliding screw arrangement along said threaded axis. The screw arrangement consists preferably of two parts (20, 30) and comprises a first resilient part, e.g. a spring (143), to compensate tolerances in axial direction and a second resilient part, e.g. a resilient tongue (25), and tracks (28) to compensate tolerances in radial direction. The screw hollowness through which the threaded axis is guided is at its inside is equipped with semi-spheres (21,31) that follow the turn of a thread of the axis.

WO 2004/066496 A1